

Title (en)

Work loading and unloading device for bending machines.

Title (de)

Vorrichtung zur Einlagerung und Entnahme für eine Biegepresse.

Title (fr)

Dispositif pour placer et retirer des pièces dans une presse de pliage.

Publication

**EP 0636435 A1 19950201 (EN)**

Application

**EP 94401496 A 19940630**

Priority

JP 16274993 A 19930630

Abstract (en)

A work loading and unloading device (3) disposed in front of a bending machine (1) and comprising a unit composed of a 5-axis control robot (5) provided with a work hand (43) at an end thereof, as well as of a single-work taking-up device (7) for taking up only a single work (W) from stacked works. The work loading and unloading device is movable to any desired positions and provided with a work hand (43) having a double-work take-up detecting device (83) and an upper hand able to approach a bent work without interference with the punch P. <IMAGE>

IPC 1-7

**B21D 43/10**; **B21D 5/02**; **B25J 5/00**

IPC 8 full level

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CPC (source: EP US)

**B21D 5/0281** (2013.01 - EP US); **B21D 43/105** (2013.01 - EP US); **B25J 5/007** (2013.01 - EP US)

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